

COMPUTER SYSTEM

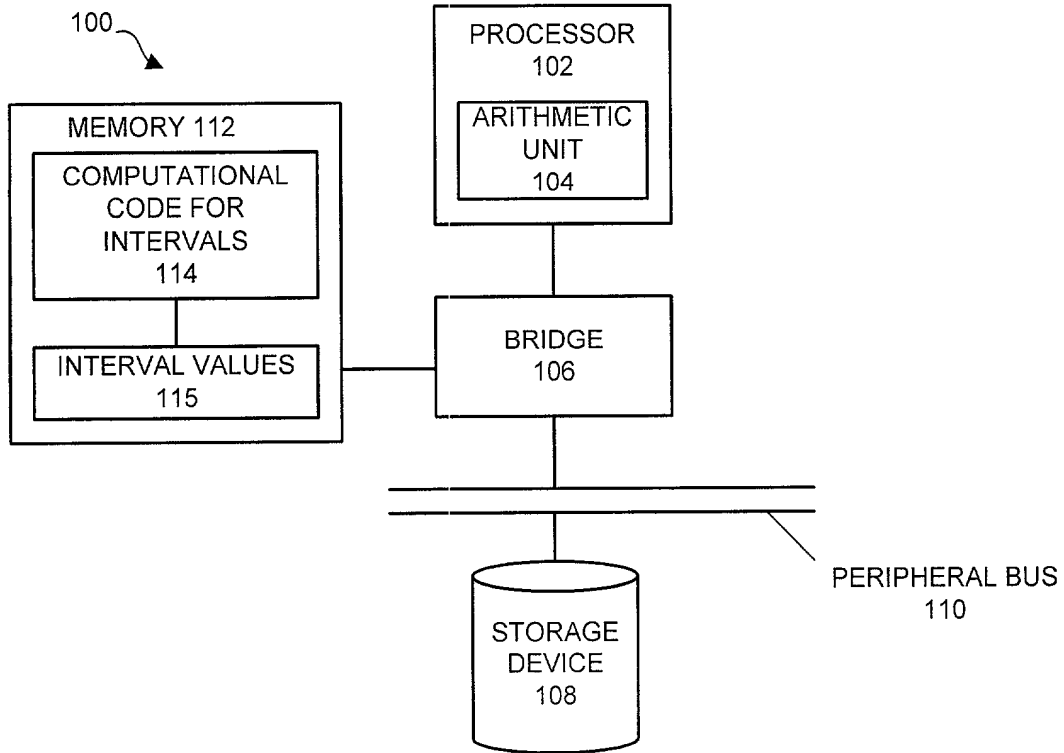


FIG. 1

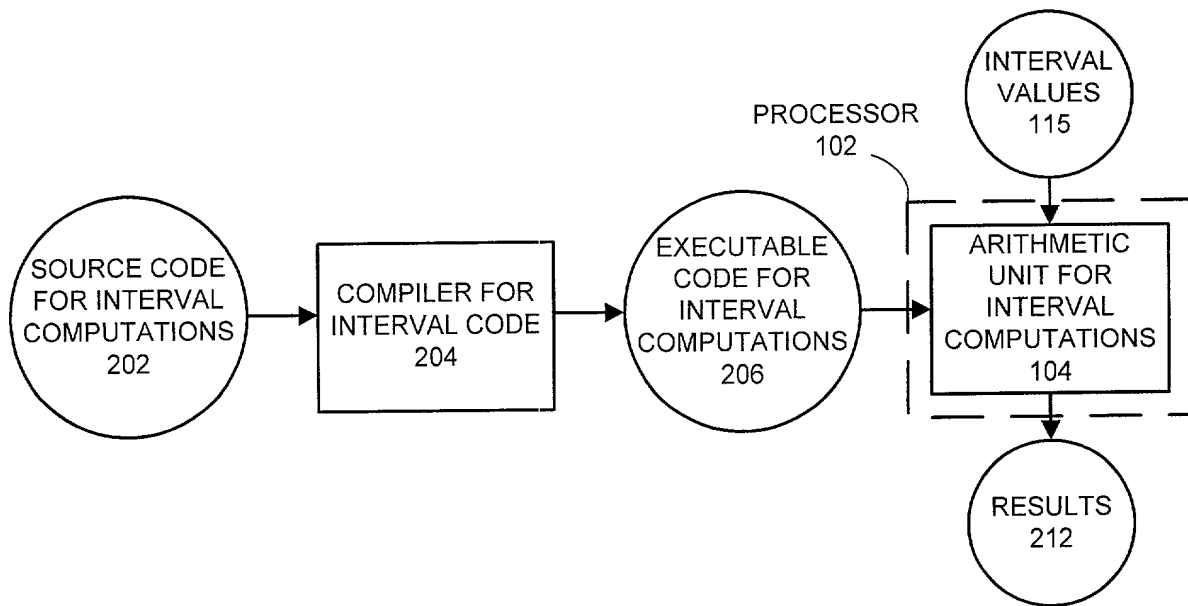


FIG. 2

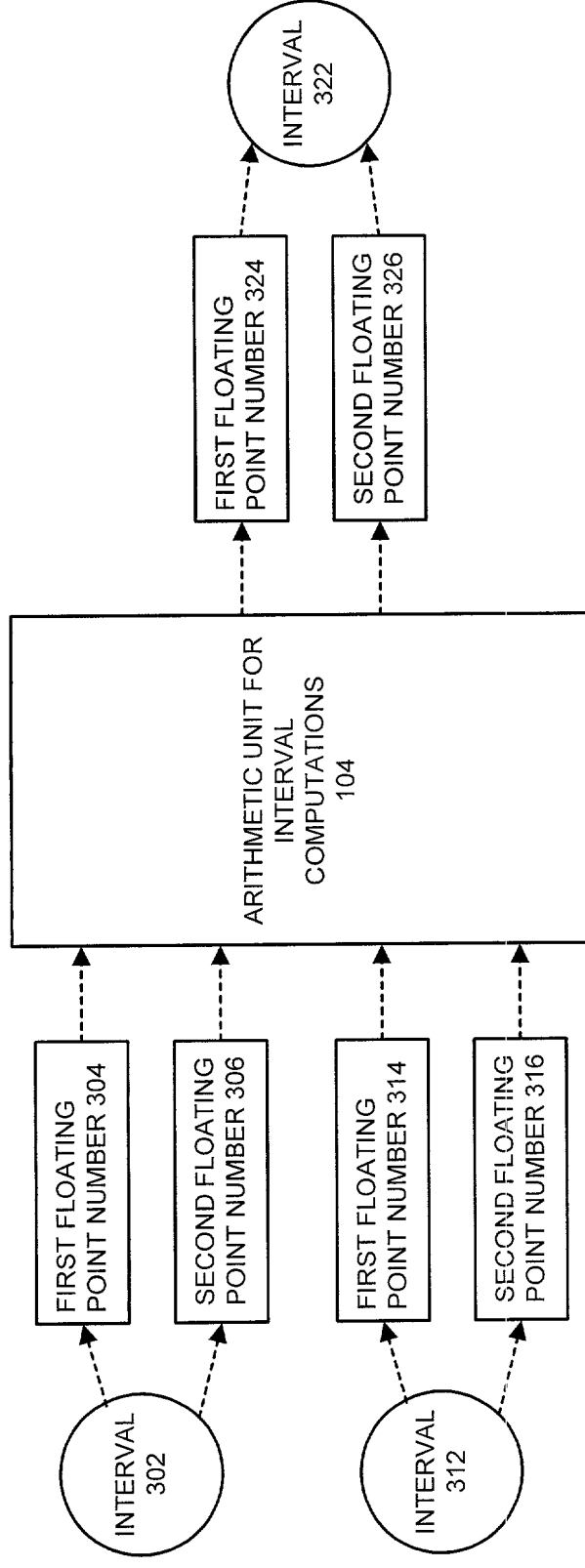


FIG. 3

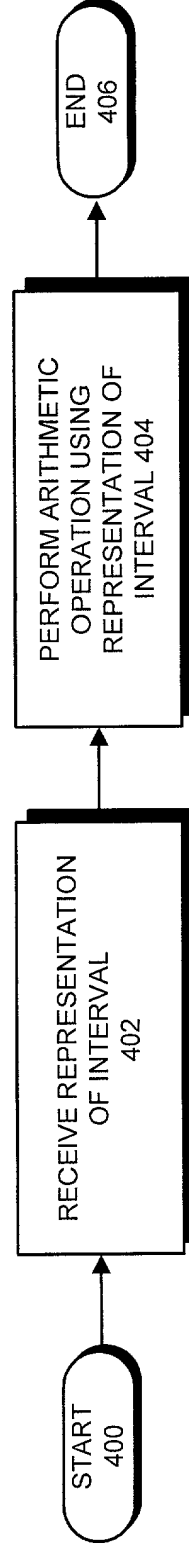


FIG. 4

$$X \equiv [\underline{x}, \bar{x}] \equiv \left\{ x \in \mathcal{R}^* \mid \underline{x} \leq x \leq \bar{x} \right\}$$

$$Y \equiv [y, \bar{y}] \equiv \{y \in \mathcal{R}^* \mid y \leq \bar{y}\}$$

$$(1) \quad \mathbf{X} + \mathbf{Y} = [\downarrow \bar{\mathbf{x}} + \mathbf{y}, \uparrow \bar{\mathbf{x}} + \bar{\mathbf{y}}]$$

$$(2) \text{ } \mathbf{X} - \mathbf{Y} = [\downarrow \bar{\mathbf{x}} - \bar{\mathbf{y}}, \uparrow \bar{\mathbf{x}} - \bar{\mathbf{y}}]$$

$$(3) \quad X \times Y = [\min(\downarrow \underline{x} \times \underline{y}, \underline{x} \times \bar{y}, \bar{x} \times \underline{y}, \bar{x} \times \bar{y}), \max(\uparrow \underline{x} \times \underline{y}, \underline{x} \times \bar{y}, \bar{x} \times \underline{y}, \bar{x} \times \bar{y})]$$

$$(4) \quad X/Y = \left[\min(\downarrow \underline{x}/y, \underline{x}/\bar{y}, \bar{x}/y, \bar{x}/\bar{y}) , \max(\uparrow \underline{x}/y, \underline{x}/\bar{y}, \bar{x}/y, \bar{x}/\bar{y}) \right], \quad 0 \notin Y$$

$$X/Y \subset \mathfrak{R}^*, \quad 0 \in Y$$

FIG. 5

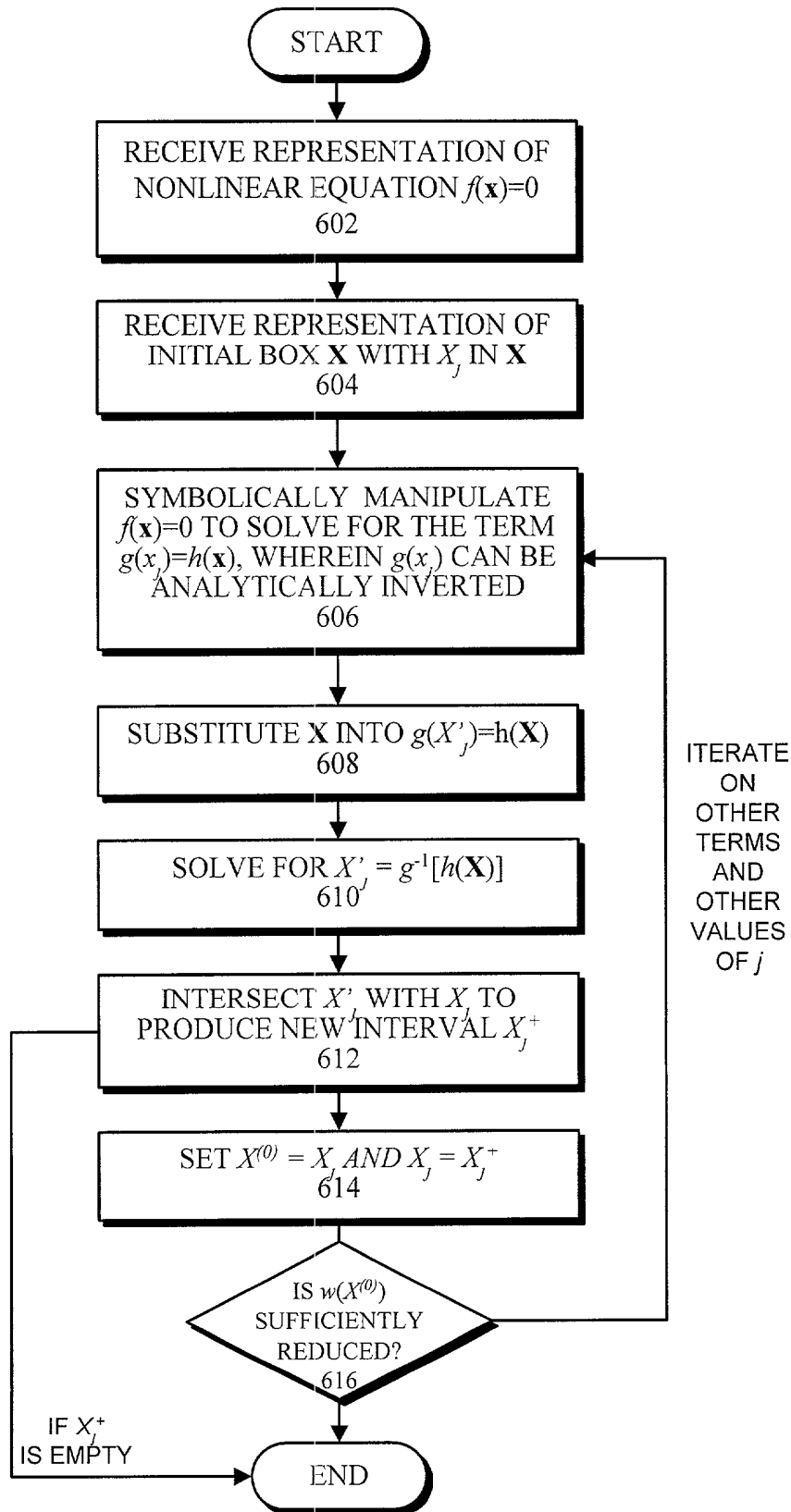


FIG. 6

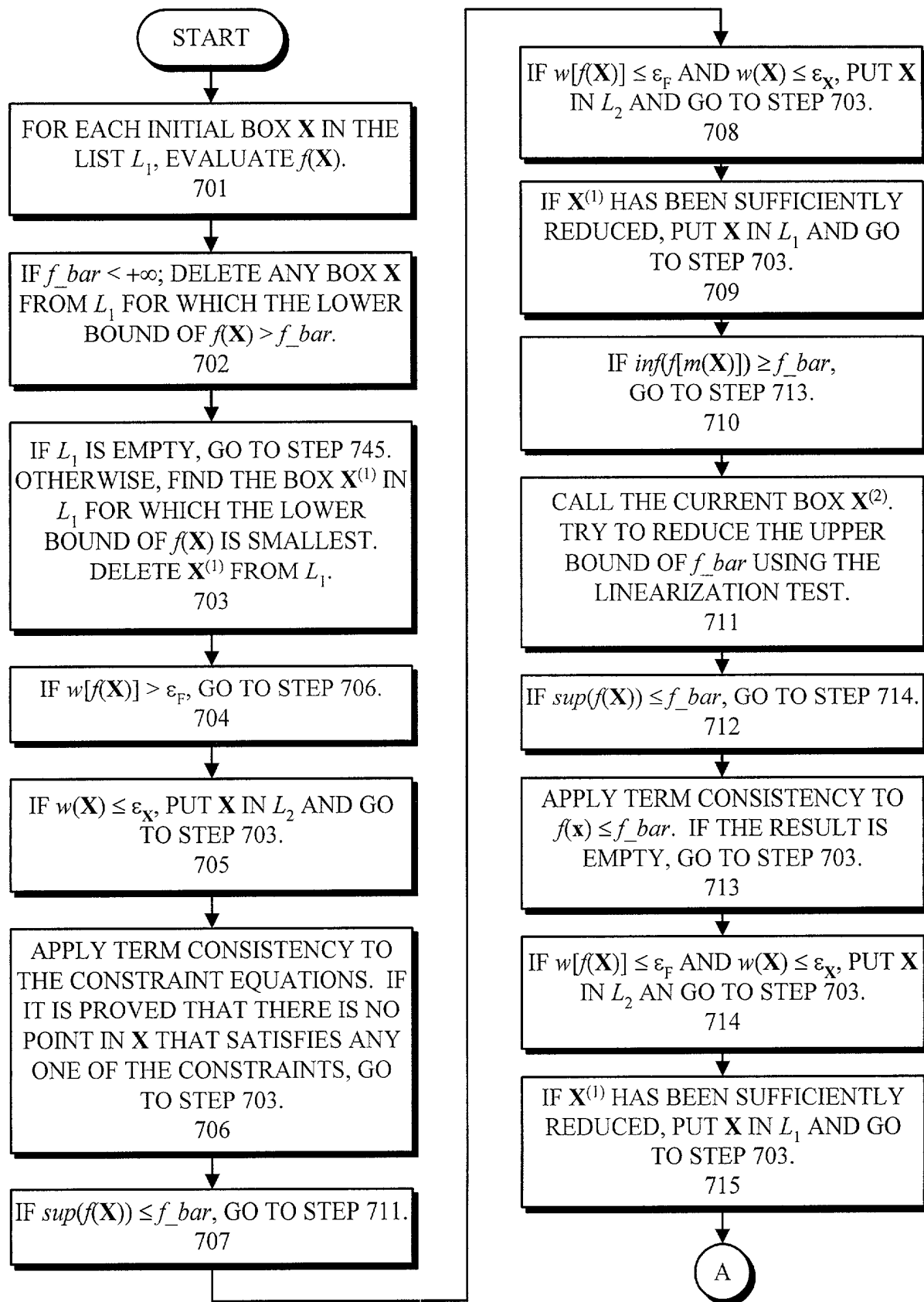


FIG. 7A

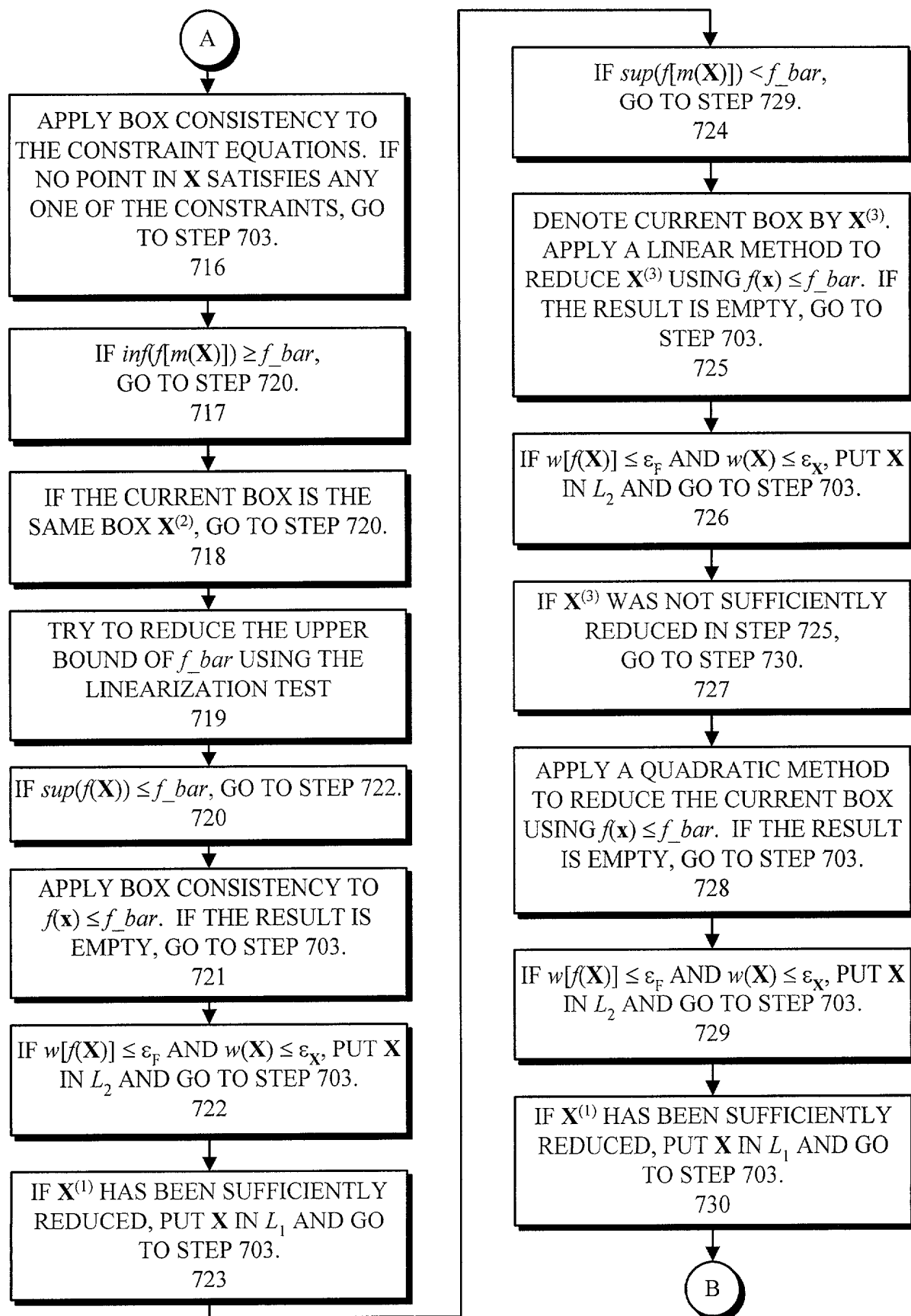


FIG. 7B

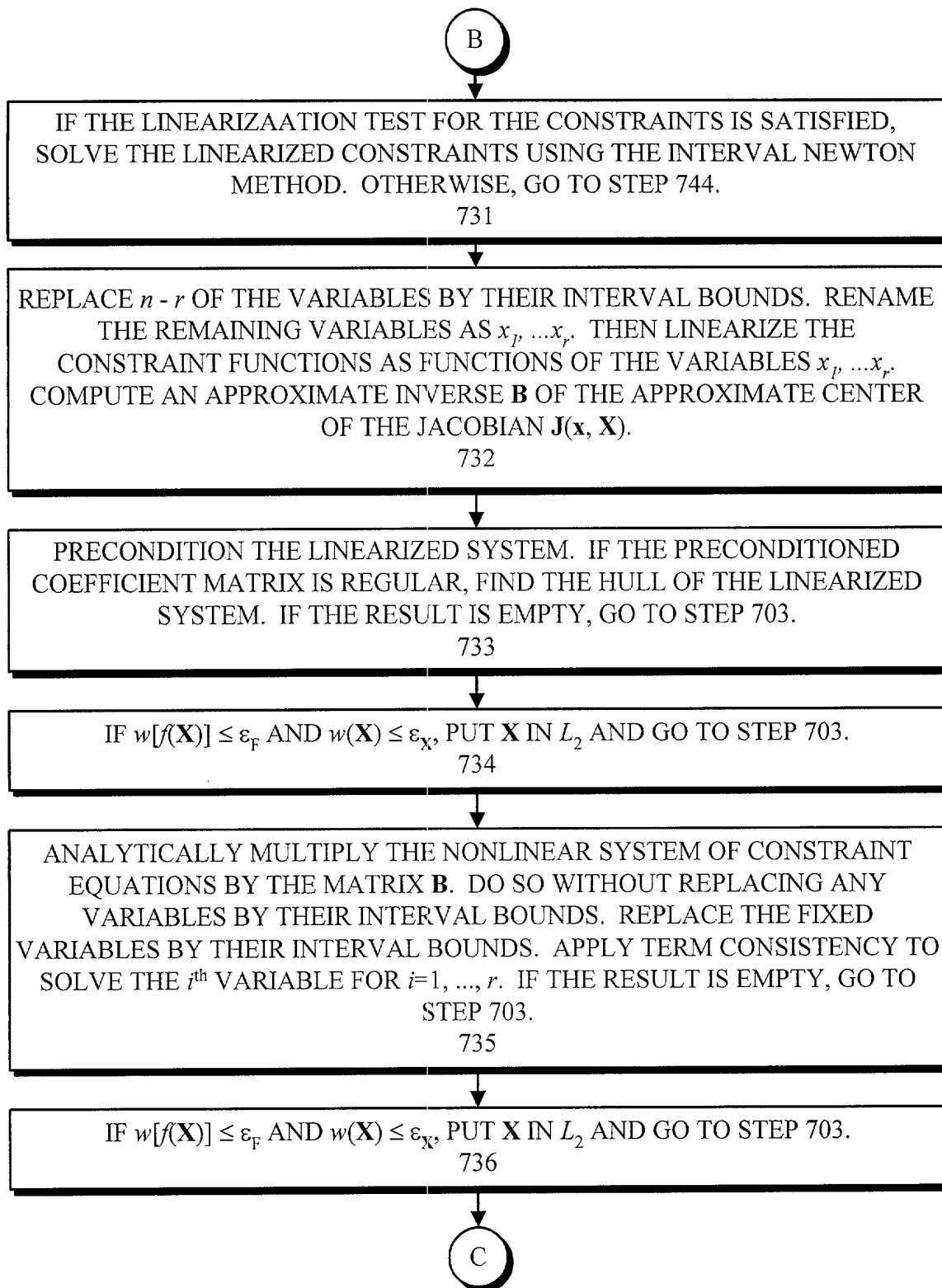


FIG. 7C

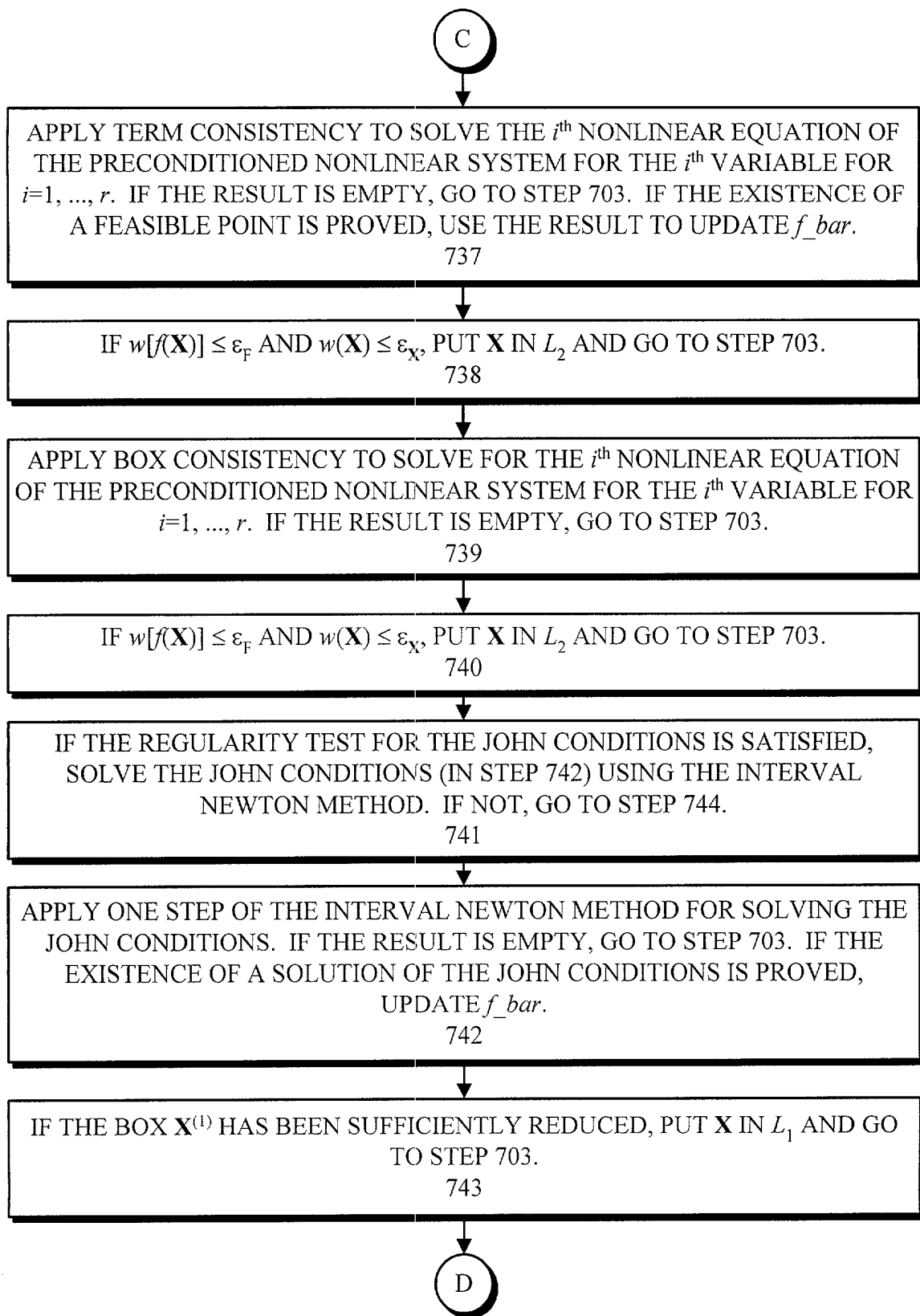


FIG. 7D

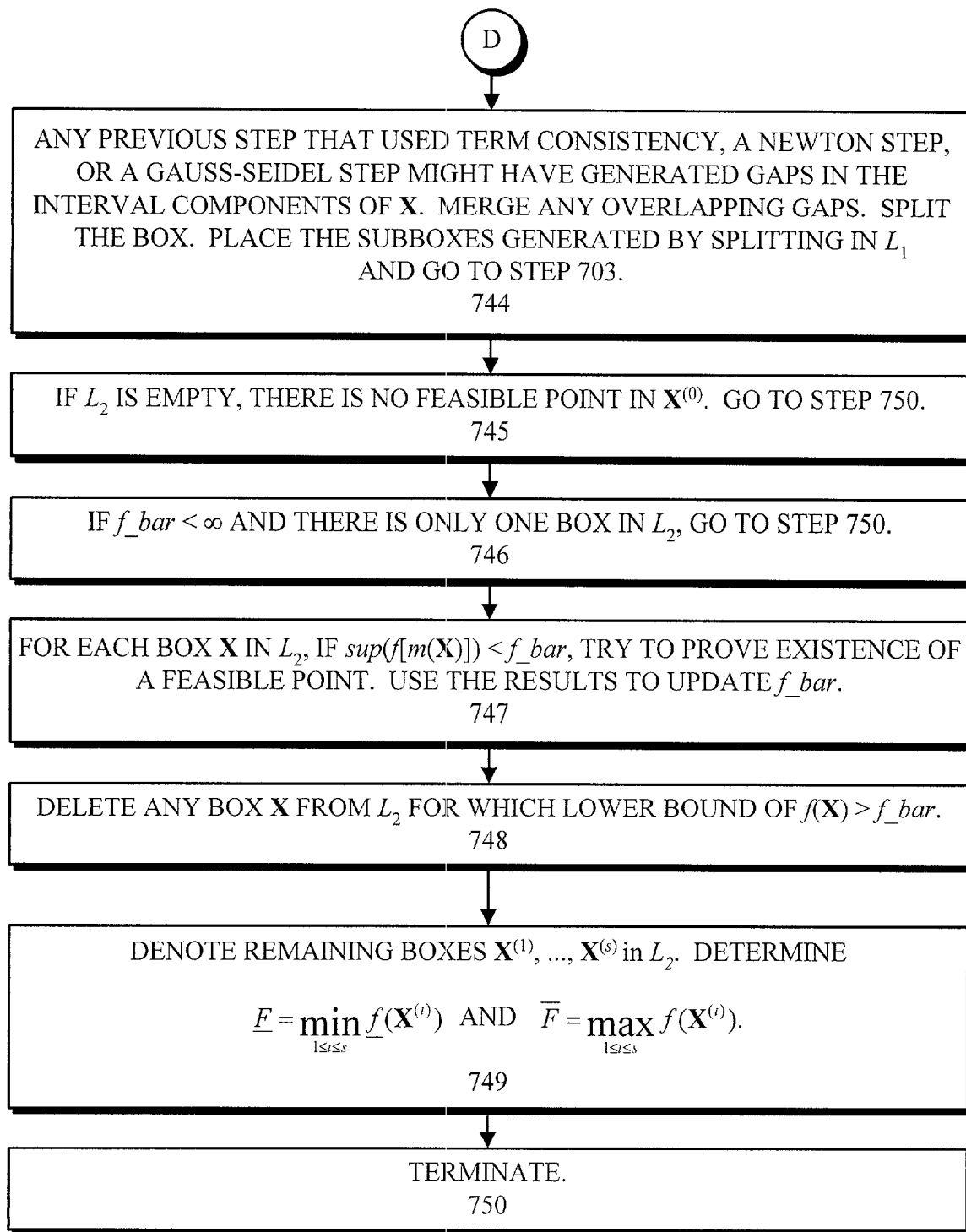


FIG. 7E